

IN THE CLAIMS

Please amend the claims as follows.

1 - 42. (Canceled)

43. (Currently Amended) A composite wireless device comprising:

a shell having non-wireless hardware components, memory, and system software, wherein the system software includes an operating system, software drivers, and one or more software applications, and wherein the shell memory stores

a service array including one or more elements, each element representing a wireless service and having a value specifying a level of support by the shell for the respective wireless service, and

a registration list including registration information for the one or more software applications, the service array registration information containing a
~~correlated list associating an identifier for each software application correlated with a~~
~~respective identifiers of one or more a wireless services accessed requested by each~~
~~the respective software application, the correlated list generated through a registration~~
~~process in which each application registers for at least one wireless service; and~~
a cartridge removably coupled to the shell through an interface and having wireless hardware components and call-processing software to communicate with the system software and to access a wireless communication service supported by the cartridge upon coupling of said the cartridge with the shell, wherein the call-processing software informs the shell which wireless services it supports as well as the shell support requirements of the supported wireless services and; wherein

the system software of the shell uses the service array to determine, through a comparison operation performed in one of the shell or the cartridge, whether the shell is able to meet the shell support requirements of the cartridge supported wireless services, and then uses the registration information to determines whether any of the wireless services supported by the cartridge is registered with are requested by any software application through the service array registration list.

44. (Previously Presented) The device of claim 43 wherein the non-wireless hardware components are selected from the group consisting of keypad, graphic display element, battery, speaker, and microphone.

45. (Previously Presented) The device of claim 44 wherein the wireless hardware components are selected from the group consisting of baseband circuit, radio frequency component, and antenna.

46. (Currently Amended) The device of claim 43 wherein ~~the~~ each application registers for at least one wireless service through a registration process for an application that comprises:

- assigning the application a client identification number;
- storing the client identification number in a service request list; and
- communicating with the application through a function return call.

47. (Previously Presented) The device of claim 46 wherein the shell includes a sub-routine to determine if a selected application software is operable with the supported wireless communication service by receiving the wireless service identifier from the application software regarding which wireless communication service is to be used based on the registration, and to compare the wireless service identifier with an identifier provided by the call-processing software, and further to notify the application software that an identified wireless service is available.

48. (Canceled)

49. (Currently Amended) The device of claim ~~48~~ 43 wherein each element of the ~~second list is a single~~ service array comprises an integer value, and wherein the value determines a level of support for a wireless service by the hardware and software resources of the shell, and further wherein the position of the value in the list reflects a ~~service identifier of the corresponding~~ specific wireless service.

50. (Currently Amended) The device of claim 48 49 wherein the cartridge maintains a list of supported wireless services, the cartridge list comprising one or more elements, each element representing a supported wireless service and having a value specifying a level of support required by the respective wireless service from the shell, and wherein the shell sends the second list of elements service array to the cartridge and the cartridge uses this second list service array compared against the cartridge list to determine which wireless services the composite wireless device is able to support.

51. (Currently Amended) A method comprising:

storing a service array in a memory of a shell of a composite wireless device, the ~~service array containing a correlated list associating an identifier for each software application with respective identifiers of one or more wireless services accessed by each software application,~~ the shell having non-wireless hardware components, memory, and system software, wherein the system software includes an operating system, software drivers, and one or more software applications, and wherein the memory, service array includes one or more elements, each element representing a wireless service and having a value specifying a level of support by the shell for the respective wireless service;

~~registering each application for at least one wireless service to generate the correlated list;~~

~~accessing a wireless communication service upon coupling of a cartridge with the shell, the cartridge removably coupled to the shell through an interface and having wireless hardware components and call processing software to communicate with the system software;~~

~~informing the shell through the call processing software of a wireless service the cartridge supports; and~~

~~determining in the shell whether the wireless service supported by the cartridge is registered with any software application through the service array.~~

storing in the shell memory, a registration list including registration information for the one or more software applications, the registration information containing an identifier for

each software application correlated with a respective identifier of a wireless service requested by the respective software application;

providing a cartridge removably coupled to the shell through the cartridge interface and having wireless hardware components, call-processing software to communicate with the operating system, and a cartridge memory; and

storing in the cartridge memory a list of one or more wireless services supported by the cartridge, the cartridge list comprising one or more elements, each element representing a supported wireless service and having a value specifying a level of support required by the respective wireless service from the shell.

52. (Previously Presented) The method of claim 43 wherein the non-wireless hardware components are selected from the group consisting of keypad, graphic display element, battery, speaker, and microphone, and wherein the wireless hardware components are selected from the group consisting of baseband circuit, radio frequency component, and antenna.

53. (Currently Amended) The method of claim 52 wherein ~~the~~ each application registers for at least one wireless service through a registration process further that comprises:

assigning the application a client identification number;

storing the client identification number in a service request list; and

communicating with the application through a function return call.

54. (Previously Presented) The method of claim 53 wherein the shell includes a sub-routine to determine if a selected application software is operable with the supported wireless communication service by receiving the wireless service identifier from the application software regarding which wireless communication service is to be used based on the registration, and to compare the wireless service identifier with an identifier provided by the call-processing software, and further to notify the application software that an identified wireless service is available.

55 - 56. (Canceled)

57. (Currently Amended) The method of claim 56 51 further comprising ~~shell sending from the shell the second list of elements to the cartridge, wherein the cartridge uses the second list to determine which wireless services the device is able to support~~
receiving the cartridge array from the cartridge upon coupling of the cartridge and the shell;
comparing the cartridge service array to the service array through the comparison operation performed in the shell, to determine which wireless services are supported by the combined cartridge and shell;
notifying respective requesting applications that a requested wireless service is supported for the wireless services that are determined to be supported;
sending data to a supported wireless service from a respective requesting application;
and
relating the data to the supported wireless service from the cartridge.

58. (New) The method of claim 51 further comprising:
receiving the cartridge array from the cartridge upon coupling of the cartridge and the shell;
comparing the cartridge service array to the service array through the comparison operation performed in the cartridge, to determine which wireless services are supported by the combined cartridge and shell;
notifying respective requesting applications that a requested wireless service is supported for the wireless services that are determined to be supported;
sending data to a supported wireless service from a respective requesting application;
and
relating the data to the supported wireless service from the cartridge.

59. (New) The method of claim 58 further comprising:
modifying the service array to include supported wireless services as a result of the comparison operation to generate a final service array; and

sending the final service array to the shell to indicate the wireless services supported by the shell.

60. (New) The device of claim 43 wherein, in the event that the system software of the shell does not recognize a wireless service that the cartridge supports, the service array is expanded to include an additional element that represents the new wireless service.

61. (New) The device of claim 58 wherein the shell further expands the registration information to include the new wireless service in the event that the system software does not recognize the wireless service.

62. (New) A modular communication device comprising:
a shell having a cartridge interface, non-wireless hardware components, memory, software components, wherein the software components include an operating system, drivers, and one or more software applications, and a memory, wherein the memory stores
a service array including one or more elements, each element representing a wireless service and having a value specifying a level of support by the shell for the respective wireless service, and
a registration list including registration information for the one or more software applications, the registration information containing an identifier for each software application correlated with a respective identifier of a wireless service requested by the respective software application; and
a cartridge removably coupled to the shell through the cartridge interface and having wireless hardware components, call-processing software to communicate with the operating system, and a memory, the memory storing a list of one or more wireless services supported by the cartridge, the cartridge list comprising one or more elements, each element representing a supported wireless service and having a value specifying a level of support required by the respective wireless service from the shell.

63. (New) The device of claim 62 wherein, upon coupling of the cartridge and the shell, the shell sends the service array to the cartridge and the operating system compares the service array against the cartridge list to determine which wireless services the modular communication device is able to support.

64. (New) The device of claim 62 wherein the shell operating system maintains a default service array specifying which wireless serves the shell is able to support given a current hardware configuration, and wherein, upon coupling of said cartridge with the shell, the shell transmits the default service array to the cartridge, and the call-processing software sends another service array back to the shell informing the shell which wireless services will be supported by the current hardware configuration.

65. (New) The device of claim 62 wherein each of the service array, registration list, and cartridge list comprises a dynamic list of integers, each integer having a value specifying a level of support required by the respective wireless service from the shell.

66. (New) The device of claim 65 wherein, in the event that the system software of the shell does not recognize a wireless service that the cartridge supports, the service array is expanded to include an additional element that represents the new wireless service, and the registration list is expanded to include the new wireless service.